

Amendments

In the Specification:

A marked-up copy of the changes to selected paragraph(s) is provided below. Please enter these changes to the specification in the record.

Please amend paragraph [0030] as follows:

In a fuel cell that utilizes methanol as a fuel, such as a DMFC, a perfluorinated cation exchange resin, for example, Nafion (a registered trademark of E.I. DuPont), may be used as the pressure film 153b. Nafion, which is a polymeric ion exchange membrane, is widely used as an electrolyte membrane in the MEA of a DMFC. In practice, the swelling of Nafion in a DMFC is considered as a factor that deteriorates a performance of the fuel cell. However, in the present invention, a sensor that can effectively measure the concentration of a methanol solution is implemented based on the swelling property of Nafion. Alternatively, an ion-conductive polymer resin or composite resin, for example, polystyrene sulfonic acid, poly ether ether sulfone sulfonic acid, perfluorinated sulfonic acid polymer, or polyimide sulfonic acid, can be used. Sulfonated polyolefin and sulfonated polysulfone, both of which vary their volumes depending on the concentration of fuel, such as a methanol solution, may be used as the pressure film 153b.